REPORT NO. 7

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Cotton Fiber and Processing Test Results

CROP of 1978

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Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 December 1, 1978

These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.1/ These reports are available on request from the Standards Section, Cotton Division, Agricultural Marketing Service, U.S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN. 38122.

1/ Summary of Cotton Fiber and Processing Test Results, Crop of 1977, USDA, AMS, Cotton Division, August 1978.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1978

Discussion of Test Results

Southwestern short staple cottons tested through November 24 are shorter and less uniform than a year ago, according to the Cotton Division, Agricultural Marketing Service, USDA. Cottons are stronger at zero gage, but weaker at 1/8" gage strength tests than a year ago. Both Shirley Analyzer nonlint content and picker and card waste are higher. Yarns spun from these samples are weaker but appearance grades are higher. Yarn imperfections are lower. The average spinning potential is lower.

Southeastern medium staple samples tested to date are longer, finer and stronger at 1/8" gage strength tests. Picker and card waste is lower. Yarns spun from these samples are stronger with lower imperfections than a year ago. The spinning potential is higher.

Medium staple samples from the South Central area are slightly shorter than a year ago. Picker and card waste is higher. Yarns spun from these samples are weaker with lower imperfections than a year ago. The spinning potential is lower.

Medium staple samples from the Southwest are shorter, less uniform, coarser and stronger at 1/8" gage strength tests than last season. Both Shirley Analyzer nonlint content and picker and card waste are higher. Yarns are weaker with lower appearance grades. Imperfections are lower. The spinning potential is lower.

Medium staple samples tested from the West show fibers to be shorter, coarser and weaker than a year ago. Picker and card waste is slightly higher. Yarns are weaker but appearance grades are higher. Yarn imperfections are lower. The average spinning potential number is also lower.

The average results of all medium staple cottons tested show fibers to be shorter, less uniform and stronger at zero gage strength tests than a year ago. Both Shirley Analyzer nonlint content and picker and card waste are higher. Yarns spun from these samples are weaker. Yarn imperfections are lower. The spinning potential is lower.

Southeast long staple samples tested to date show fibers to be longer, finer and weaker at zero gage fiber strength tests but stronger at 1/8" gage strength tests than last season. Both Shirley Analyzer nonlint content and picker and card waste are higher. Carded yarns spun from these samples are stronger with higher appearance grades. Yarn imperfections are lower. Spinning potential yarn number is higher.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 24, 1978 1/

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results				
		Fibrograph		Mike fineness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appearance	Imperfections	
	No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs.	Index	No.	Yarn No.
									22s Carded Yarn			
Short Staple:												
Southwest												
1977	56	.98	46	4.2	89	22	3.3	5.5	100	110	13	- 3/48
1978	19	.93	45	4.2	92	21	4.0	7.2	95	118	7	(17) 39
Medium Staple:												
Southeast												
1977	26	1.07	45	4.8	87	22	3.2	6.2	95	95	19	- 50
1978	27	1.11	45	4.5	87	23	3.2	5.9	108	94	13	(72) 59
South Central												
1977	118	1.11	45	4.6	86	23	3.5	6.1	104	95	22	- 57
1978	95	1.10	45	4.6	86	23	3.4	6.5	102	96	13	(54) 51
Southwest												
1977	43	1.08	46	4.2	86	22	3.2	5.7	103	91	18	- 54
1978	39	1.03	45	4.3	89	22	4.4	6.4	100	82	16	(80) 51
West												
1977	36	1.12	46	4.3	96	26	2.5	5.4	124	87	23	- 71
1978	22	1.11	46	4.6	93	25	2.5	5.6	115	92	16	(114) 60
U.S. Average												
1977	223	1.10	46	4.5	87	23	3.3	5.9	105	93	21	- 58
1978	183	1.09	45	4.5	88	23	3.5	6.2	103	92	14	(69) 53
Significant difference 2/		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3

1/ Based on a limited number of samples of modal quality
2/ Minimum differences considered to be significant for comparisons in this table.
3/ Parentheses indicate the neps per 1000 yards of yarn as measured by the Uster instrument.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 25, 1978 1/ (Continued)

Staple group, Area, and Crop year	Lots	Fiber Test Results						Processing Test Results								
		Length		Mike	Strength		SA Non-lint	P&C Waste	Comber Waste	Yarn Quality						SPY
		Span	Unif		Zero gage	1/8" gage				Strength		Appearance		Imprfctns		
										carded	combed	carded	combed	card	comb	
	No.	In.	Pct.	Rdg.	Mpsi	G/tx	Pct.	Pct.	Pct.	Lbs.	Lbs.	Indx	Indx	No.	No.	No.
										22s Carded & Combed Yarn						
Long Staple:																
Southeast																
1977	7	1.12	45	4.8	87	23	3.2	7.2	*	100	*	104	*	15	* -	57
1978	13	1.13	45	4.4	85	24	3.3	7.7	16.6	112	129	106	125	11	3(26)	59
South Central																
1977	2	1.14	44	4.4	90	24	3.8	6.8	*	105	*	95	*	26	* -	63
1978	2	1.17	44	4.1	90	26	4.2	8.7	17.2	112	135	90	125	22	5(42)	66
West																
1977	3	1.18	47	4.2	90	27	3.2	5.5	*	129	*	93	*	25	* -	81
1978	1	1.19	46	4.2	91	28	3.2	7.5	16.4	136	153	80	120	29	9(20)	97
Significant Difference 2/		0.02	2	0.2	2	1	0.5	0.5	0.5	4(22s)	4(22s) 2(50s)	5	5	2	2	3

1/ Based on a limited number of samples of modal quality
2/ Minimum differences considered to be significant for comparisons in this table.
* Comparable data not available.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1978

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
				Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns Neps/M Yards		Spin. Poten-tial
No	Grade Name & Code	Stple		2.5% span	Unif		Zero Gage	1/8" Gage			Gra	Yel		8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	
		32s		In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHWEST AREA																							
CENTRAL TEXAS																							
COMMERCE								**LANKART 57**							**99 PERCENT**								
3 MID	31	30		0.95	45	4.4	89	20	6.0	2.9	1	4	6.2	277	93	6.8	5.7	120	110	36	(12) 1/ 9	(2) 1/ 37
NORTHWEST TEXAS																							
LORENZO								**PAYMASTER 303**							**70 PERCENT**								
1 SLM LT SP	42	32		1.01	45	3.8	87	23	7.0	4.7	3	4	7.1	331	114	7.7	6.8	120	110	35	(2)11	(6) 58

1/ Parentheses indicate the neps per 1000 yards of yarn as measured by the Uster instrument.

Table 3--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1978.

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns Neps/M Yards		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHEAST AREA																					
ALABAMA																					
HUNTSVILLE							STONEVILLE 603						100 PERCENT								
3 SLM	41	34	1.10	45	4.4	86	23	6.2	3.3	2	3	6.2	101	32	6.1	4.0	80	80	8 (68) 1/	9 (140) 1/	49
MADISON							STONEVILLE 213						95 PERCENT								
3 SLM	41	33	1.10	44	4.7	82	22	6.9	3.7	2	4	5.2	100	34	6.2	4.8	80	70	16 (66)	11 (222)	57
MOUNDVILLE							DELTAPINE 61						70 PERCENT								
2 SLM	41	34	1.11	43	4.6	82	24	7.5	2.3	2	4	5.8	105	32	6.2	4.4	100	60	12 (44)	12 (178)	58
OPELIKA							DELTAPINE 16						75 PERCENT								
3 SLM	41	34	1.10	44	4.2	83	22	6.8	2.7	1	3	6.0	102	35	6.3	4.8	80	60	14 (64)	9 (274)	54
WILSONVILLE							DELTAPINE 16						100 PERCENT								
3 SLM	41	35	1.10	46	4.5	85	23	7.0	3.4	1	3	6.0	107	39	6.4	5.0	90	60	13 (62)	11 (220)	61
GEORGIA																					
BOSTWICK							DIXIE KING 111						100 PERCENT								
2 SLM LT SP	42	34	1.03	45	4.5	87	23	6.4	4.0	3	4	7.1	98	33	5.7	4.2	100	70	12 (78)	8 (116)	50
GOUGH							COKER 201						75 PERCENT								
3 SLM	41	35	1.13	46	5.0	90	26	5.9	3.6	2	3	5.6	112	38	5.7	4.1	100	80	16 (96)	12 (204)	61
SOUTH CAROLINA																					
MAYESVILLE							COKER 304						100 PERCENT								
2 SLM	41	36	1.15	43	3.9	86	21	6.3	3.5	1	2	5.6	113	39	6.1	4.7	70	60	25 (108)	23 (346)	67
3 SLM	41	36	1.15	45	4.3	89	24	5.9	2.8	1	3	5.2	117	41	5.9	4.5	80	60	24 (134)	14 (368)	71
SOUTH CENTRAL AREA																					
ARKANSAS																					
ALTHEIMER							DELTAPINE 16						95 PERCENT								
2 SLM	41	35	1.14	45	4.6	83	24	8.0	3.1	2	3	7.1	104	35	6.0	4.5	90	60	16 (46)	15 (246)	58
DERMOTT							DELTAPINE 55						80 PERCENT								
2 SLM	41	34	1.07	45	4.8	89	22	6.0	3.4	2	3	7.3	99	31	5.4	3.8	110	70	10 (54)	10 (310)	51
DUMAS							STONEVILLE 213						98 PERCENT								
3 SLM	41	35	1.06	44	3.7	87	22	7.2	4.5	1	2	5.9	105	33	6.2	4.8	70	60	19 (66)	17 (226)	54

1/ Parentheses indicate the neps per 1000 yards of yarn as measured by the Uster instrument.

Table 3--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1978

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns										
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns Neps/M Yards		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTH CENTRAL AREA Continued																					
EUDORA							DELTAPINE 61						100 PERCENT								
3 SLM	41	35	1.11	45	5.0	82	25	7.7	3.2	2	3	6.1	109	34	6.7	4.7	100	70	15 (52) 1/	10 (238) 1/	56
KEISER							REX 713						100 PERCENT								
3 SLM	41	35	1.12	44	3.9	79	20	7.0	4.2	1	3	5.8 2/	96	31	6.2	4.5	100	70	12 (38)	8 (190)	56
LEACHVILLE							STONEVILLE 213						100 PERCENT								
2 SLM	41	35	1.11	46	4.4	81	23	7.2	2.8	1	3	6.4	103	33	6.4	4.8	110	70	13 (70)	9 (240)	56
LEACHVILLE							VAIL 7						100 PERCENT								
3 SLM	41	35	1.09	44	4.2	89	22	5.9	1.1	1	3	6.3	103	31	5.5	3.8	80	60	15 (72)	9 (258)	46
TRUMANN							STONEVILLE 213						100 PERCENT								
2 SLM	41	35	1.12	45	4.9	84	24	6.8	2.6	2	3	6.2	102	34	5.9	4.7	90	60	18 (114)	19 (370)	55
LOUISIANA																					
ALEXANDRIA							STONEVILLE 213						100 PERCENT								
2 SLM	41	34	1.10	46	5.2	80	21	6.7	3.3	2	3	6.9	87	26	5.4	3.7	110	70	8 (40)	10 (208)	44
MONROE							DELTAPINE 61						100 PERCENT								
2 SLM	41	35	1.11	45	4.7	84	24	7.4	2.2	2	2	6.7	100	32	6.2	4.3	110	80	9 (36)	12 (230)	50
SHREVEPORT							DELTAPINE 16						100 PERCENT								
2 SLM LT SP	42	34	1.04	43	4.4	83	21	6.8	3.7	3	4	7.0	85	25	5.4	3.7	80	60	10 (62)	8 (262)	41
SHREVEPORT							DELTAPINE 61						80 PERCENT								
2 SLM	41	34	1.06	43	4.7	84	23	7.7	3.6	1	3	6.2	98	30	5.8	4.4	100	60	12 (66)	13 (196)	47
MISSISSIPPI																					
BELZONIA							DELTAPINE 16						100 PERCENT								
2 SLM	41	35	1.16	42	4.5	83	22	7.8	4.7	1	2	6.3	108	38	6.3	5.0	90	70	10 (36)	9 (138)	54
3 SLM	41	34	1.13	42	4.7	85	22	7.1	4.1	1	2	6.7	100	35	6.0	4.6	90	70	9 (40)	7 (242)	57
CLARKSDALE							STONEVILLE 213						100 PERCENT								
2 LM	51	35	1.10	44	4.6	85	23	6.6	5.7	3	3	7.8	98	31	6.0	4.2	90	60	12 (68)	11 (282)	50
3 LM	51	34	1.09	44	4.8	83	22	6.3	5.3	3	3	7.2	93	31	5.7	4.2	90	60	16 (54)	14 (306)	48
DUNCAN							DELTAPINE 61						100 PERCENT								
3 SLM LT SP	42	34	1.06	43	4.2	89	23	7.4	4.3	3	3	6.8	103	32	6.4	4.3	80	60	11 (48)	12 (344)	52
GREENVILLE							DELTAPINE 26						100 PERCENT								
2 LM	51	35	1.14	47	4.9	89	25	6.3	6.2	2	3	8.2	110	38	6.2	4.7	100	80	19 (56)	14 (274)	57

1/ Parentheses indicate the neps per 1000 yards of yarn as measured by the Uster instrument.

2/ Cotton stuck to processing rolls.

Table 3--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1978.

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns Neps/M Yards		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTH CENTRAL AREA Continued																					
GREENVILLE							DELTAPINE 16						100 PERCENT								
3 SLM	41	34	1.07	43	4.3	85	23	7.6	3.0	1	3	6.5	103	34	6.1	4.6	100	60	9 (32) 1/	8 (272) 1/	54
INDIANOLA							STONEVILLE 213						100 PERCENT								
3 SLM	41	35	1.08	46	4.8	85	21	6.6	3.8	2	3	6.5	101	34	5.7	4.5	110	70	12 (64)	10 (202)	48
LULA							STONEVILLE 213						100 PERCENT								
2 LM PLUS	50	35	1.13	44	4.2	82	22	6.4	5.0	2	2	7.1	102	34	6.1	4.5	80	60	20 (88)	15 (294)	54
SCOTT							DELTAPINE 55						100 PERCENT								
3 LM PLUS	50	34	1.10	43	4.3	89	23	6.4	6.0	2	2	7.2	106	35	5.5	4.3	90	60	17 (58)	14 (236)	55
SHAW							STONEVILLE 731N						100 PERCENT								
3 SLM LT SP	42	35	1.09	47	5.0	87	22	6.2	3.5	3	3	6.7	88	27	5.4	3.3	90	70	13 (76)	12 (238)	42
TUNICA							DES 56						100 PERCENT								
1 SLM	41	35	1.12	44	4.2	88	22	6.8	2.9	2	3	7.0 2/	104	34	6.2	4.4	100	70	13 (42)	9 (216)	57
2 SLM	41	35	1.11	45	4.3	89	23	6.6	3.3	2	3	6.7	103	34	6.2	4.1	90	70	16 (38)	11 (154)	55
VALLEY PARK							DELTAPINE 61						90 PERCENT								
2 SLM	41	35	1.13	46	4.7	78	23	7.6	4.3	2	2	7.1	110	36	6.8	4.9	90	70	11 (52)	10 (220)	56
MISSOURI																					
PORTAGEVILLE							STONEVILLE 213						90 PERCENT								
3 SLM	41	35	1.04	43	4.2	36	23	6.8	3.3	2	3	6.2	93	29	6.0	3.8	100	70	11 (34)	8 (160)	45
SENATH							AUBURN M						100 PERCENT								
3 SLM	41	34	1.06	43	4.2	83	23	7.0	3.3	2	3	6.7	96	30	6.1	4.3	80	60	18 (72)	14 (298)	43
TENNESSEE																					
ELORA							STONEVILLE 213						90 PERCENT								
2 SLM	41	34	1.07	45	4.7	82	22	7.6	3.8	2	4	6.2	96	32	5.8	4.7	110	60	16 (40)	10 (224)	47

1/ Parentheses indicate the neps per 1000 yards of yarn as measured by the Uster instrument.

2/ Cotton stuck to processing rolls.

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1978.

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns Neps/M Yards		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHWEST	AREA																				
CENTRAL TEXAS																					
GRANDVIEW							GP3755						100 PERCENT								
3	MID LT SP	32 29	0.93	42	4.3	90	19	5.5	3.7	2	4	8.1	55	2/	3.9	2/	70	2/	15 (78)	2/	25 3/

1/ Parentheses indicate the neps per 1000 yards of yarn as measured by the Uster instrument.

2/ End breakage too high to spin 50s, 44s, or 36s.

3/ End breakage too high to spin the coarest desired yarn number

The reported number is an estimated value below the range of the test.

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1978.

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns										
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns Neps/M Yards		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
WEST		AREA																			
ARIZONA																					
BUCKEYE							DELTAPINE 61						97 PERCENT								
1	SLM	41 35	1.10	46	5.1	90	24	6.6	3.9	1	3	6.3	102	35	5.7	4.5	90	60	18	(80) 1/ 15	(372) 1/ 51
CASHION							DELTAPINE 61						93 PERCENT								
1	MID	31 35	1.11	44	5.0	86	23	7.0	2.1	1	3	5.4	98	32	5.7	4.2	90	60	18	(66) 12	(386) 47
MARICOPA							DELTAPINE 16						100 PERCENT								
1	MID	31 36	1.13	44	4.5	87	23	7.0	2.6	0	3	7.3	111	37	6.3	4.8	90	70	24	(72) 18	(340) 56
CALIFORNIA																					
ARVIN							ACALA SJ-2						95 PERCENT								
1	SLM	41 36	1.15	47	4.1	96	26	6.4	2.4	1	3	5.1	127	45	5.9	4.8	80	60	18	(90) 12	(222) 73
ARVIN							ACALA SJ-2						90 PERCENT								
1	SLM	41 36	1.15	47	4.4	93	26	6.2	2.8	1	3	5.3 2/	125	46	5.8	4.7	80	60	19	(110) 14	(330) 70
BAKERSFIELD							ACALA SJ-2						90 PERCENT								
1	SLM	41 36	1.13	47	4.3	98	26	5.8	6.7	2	3	6.8	130	46	5.9	4.4	80	60	12	(86) 10	(230) 73
BUTTONWILLOW							ACALA SJ-2						100 PERCENT								
1	MID	31 36	1.12	47	4.5	102	28	6.4	2.0	1	3	4.8 2/	126	45	5.7	4.5	80	60	15	(86) 13	(342) 71
COALINGA							ACALA SJ-2						80 PERCENT								
1	MID	31 35	1.11	44	4.2	97	25	6.5	3.5	1	3	5.2	122	43	5.8	4.6	70	60	23	(166) 15	(434) 61
HANFORD							ACALA SJ-5						100 PERCENT								
1	MID	31 35	1.10	46	4.5	100	27	5.8	1.8	1	3	5.6	122	43	5.5	4.4	80	60	22	(110) 14	(376) 66
SHAFTER							ACALA SJ-2						93 PERCENT								
1	MID	31 35	1.11	46	4.5	100	26	5.6	2.3	1	3	5.4	121	43	6.0	4.5	90	60	29	(174) 16	(410) 65
TIPTON							ACALA SJ-4						90 PERCENT								
1	MID	31 35	1.11	47	4.4	99	28	5.6	1.7	1	3	5.4	135	50	5.9	4.6	90	70	17	(112) 13	(246) 75
TULARE							ACALA SJ-4						79 PERCENT								
1	SLM	41 36	1.13	47	4.3	99	27	6.3	2.7	2	3	5.4	130	42	5.9	4.8	70	60	26	(181) 20	(508) 70
VISALIA							ACALA SJ-4						95 PERCENT								
1	SLM	41 35	1.13	46	4.2	105	29	5.8	2.9	2	3	5.8 2/	135	44	6.0	5.0	80	60	21	(174) 19	(436) 77

1/ Parentheses indicate the neps per 1000 yards of yarn as measured by the Uster instrument.

2/ Cotton stuck to processing rolls.

Table 4--Cotton, American upland long staple: Quality characteristics by production areas, crop of 1978.

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns										
			Digital Fibrograph			Fiber Strength		Elon-gat'n	S.A. Non-Lint	Color Raw Stock		P & C and Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns Neps/M Yards		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.	Mike	Zero Gage	1/8" Gage	1/8"		Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx		
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No	No
SOUTHEAST AREA																						
ALABAMA																						
PIEDMONT							**COKER 310**						**100 PERCENT**									
3 SLM	**41**	**34**	**1.10**	**43**	**4.2**	**85**	**23**	**6.5**	**3.4**	**2**	**4**	**8.2**	**103**	**34**	**5.7**	**4.3**	**100**	**70**	12	(22) 1/	8 (160) 1/	**57**
											*	**18.5**	**125**	**43**	**6.6**	**4.8**	**120**	**100**	3	(28)	6 (166)	
GEORGIA																						
MADISON							**COKER 310**						**100 PERCENT**									
2 SLM	**41**	**35**	**1.13**	**44**	**4.5**	**88**	**24**	**5.9**	**3.4**	**2**	**4**	**8.1**	**112**	**36**	**5.5**	**4.3**	**110**	**80**	10	(12)	7 (84)	**60**
											*	**16.8**	**127**	**45**	**6.2**	**5.3**	**130**	**110**	2	(20)	2 (70)	
NORTH CAROLINA																						
DUNN							**COKER 310**						**80 PERCENT**									
3 SLM	**41**	**35**	**1.09**	**43**	**4.2**	**83**	**24**	**5.8**	**2.8**	**2**	**3**	**7.4**	**99**	**29**	**5.6**	**3.9**	**100**	**60**	11	(16)	10 (114)	**49**
											*	**18.5**	**120**	**41**	**5.8**	**4.6**	**130**	**110**	3	(18)	2 (130)	
SOUTH CAROLINA																						
MINTURN							**COKER 310**						**96 PERCENT**									
3 LM PLUS	**50**	**36**	**1.15**	**44**	**3.9**	**84**	**24**	**6.4**	**4.4**	**1**	**2**	**8.5**	**114**	**39**	**6.1**	**4.7**	**90**	**60**	13	(18)	13 (150)	**66**
											*	**16.7**	**127**	**45**	**6.5**	**5.0**	**110**	**90**	4	(52)	8 (206)	
WEST AREA																						
NEW MEXICO																						
LAS CRUCES							**ACALA 1517-75**						**85 PERCENT**									
1 MID LT SP	**32**	**37**	**1.19**	**46**	**4.2**	**91**	**28**	**6.6**	**3.2**	**1**	**4**	**7.5**	**136**	**51**	**6.3**	**5.2**	**80**	**60**	29	(36)	21 (182)	**97**
											*	**16.4**	**153**	**56**	**6.6**	**5.3**	**120**	**100**	9	(20)	8 (146)	

1/ Parentheses indicate the neps per 1000 yards of yarn as measured by the Uster instrument.
* Comber Waste and Combed Yarn Data

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